

## ABSTRACT

The invention provides a bidirectional optical module which can enable bidirectional utilization of one optical fiber transmission channel with low-cost, and an optical transmission device using it. This optical module comprises a light receiver, wherein a photo acceptance unit is optically coupled with a light output part obtained by cutting an optical fiber in the middle thereof aslant an optical fiber core, and inserting a filter/half mirror between obtained cross sections of the core; and a light transmitter, wherein a light emitting device is optically coupled with one end of the optical fiber. The light receiver is set to have a receptacle structure having a ferrule in which the other end of the optical fiber is inserted from inside, and which can physically contact with an optical connector.